HISTORIC PROPERTY INVENTORY FORM

Field Site No.		Date Rec	corded 4) lun 07		Office of Archaeo
Site Name Historic	1325-N OAHP No. Liquid Effluent Disposal Crib	Date Rec	.orueu 10	0-Jun-97		111 21st Avenue Olympia, Washin
Common Field Recorder	Darby Stapp, Evaluator: Darby Stapp				LOCATION SECTION Address	100-N Reactor Area
Owner's Name	U.S. Department of Energy, Richland Operatio	ns Office			City/Town/County/Zip Code	Rich
Address	P.O. Box 550				Twp. 14N Range 26E	Section 28
City/State/Zip Code	Richland, WA 99352				Tax No./Parcel No. Quadrangle or map name	Coyote
Status		Photography			UTM References Zone	11 Eas
X Survey/Inventory National Register		Photography Neg. I (Roll No. & Frame I		3 (BHI Graphics)	Plat/Block/Lot Supplemental Map(s)	100-N Area Building
State Register		View of	Looking North		ouppionional map(s)	100 W Wed Building
Determined Eligible		Date	1987			
Determined Not Eligible						
Other (HABS, HAER, N Local Designation	HL)				THE RESERVE	
Local Designation						
Classification	District Site	Building	X Structure	Object	The Party of the P	
Distric Status Contributing	X NR SR Non-Contributing	LR	INV		C. Contract	
District/Thematic Nominat		hattan Project and Cold Wa	r Era Historic District			Parison.
Description Section					MELL STATE	THE RESIDENCE
Materials & Features/Struc		Roof Type			The second lines with the second	Marie Williams
Building Type	Industrial	Gable X Flat	Hip Pyramidal		A STATE OF THE PARTY OF THE PAR	ALL THE
Plan Structural System	Rectangular Reinforced Concrete	Monitor	Other (specify)			HT Manage
No. of Stories	Subsurface	Gambrel				
Cladding (exterior Wall Su	rfaces	Shed				THE STREET
Log		Roof Material				
Horizontal Wood Siding Rustic/Drop		Wood Shingle Wood Shake			A CONTRACTOR	BASER SE
Clapboard	\vdash	Composition			The second second	
Wood Shingle		Slate				
Board and Batten Vertical Board		Tar/Built-up Tile				
Asbestos/Asphalt		Metal (specify)				
Brick		X Other (specify)			High Styles/Forms (Check on	e or more of the fol
Stone Stucco		Not visible			Greek Revival Gothic Revival	
Terra Cotta		Foundation			Italianate	
Concrete/Concrete Bloc	ck	Log Post & Pier	Concrete Block		Second Empire	
Vinyl/Aluminum Siding Metal (specify)		Stone	Poured		Romanesque Revival Stick Style	
Other (specify)		Brick	Other (specify)		Queen Anne	
		Not visible			Shingle Style Colonial Revival	
	(Include detailed description in				Beaux Arts/Neoclassica	
Integrity	Description of Physical Appearance)	Olimba Manda		Establish	Chicago/Commercial St	tyle
Changes to plan	Intact X	Slight Mode	nate	Extensive	American Foursquare Mission Revival	
Changes to windows					<u> </u>	
Changes to original cladding Changes to interior	·	\vdash		\vdash	Vernacular House Types Gable Front	
Other (specify)		\vdash		\vdash	Gable Front and Wing	
					Side Gable	

State of Washington, Department of Community Development ology and Historic Preservation

Southwest, Post Office Box 48343 gton 98504-8343 (206)753-4011

, 1325-N

	Richland, W	/A/Benton C	ounty/993	352		
Section	28 I/4 Se	ction	NW	1/4 1/4 Sec	SE	
				Acreage		
	Coyote Rapid	s 7.5 min. s	eries			
11	Easting	303974		Northing	5172485	
	_					
100-N Area	Ruildings					



High Styles/Forms (Check one or more of the fol	ollowing)
Greek Revival	Spanish Colonial Revival/Mediterranean
Gothic Revival	Tudor Revival
Italianate	Craftsman/Arts & Crafts
Second Empire	Bungalow
Romanesque Revival	Prairie Style
Stick Style	Art Deco/Art Moderne
Queen Anne	Rustic Style
Shingle Style	International Style
Colonial Revival	Northwest Style
Beaux Arts/Neoclassical	Commercial Vernacular
Chicago/Commercial Style	Residential Vernacular (see below)
American Foursquare	X Other (specify)
Mission Revival	Industrial Vernacular
· 	
Vernacular House Types	
Gable Front	Cross Gable
Gable Front and Wing	Pyramidal/Hipped
Side Gable	Other (specify)
	·

NARRATIVE SECTION

Study Unit Themes (check one or more of the fo	ollowing)						
Agriculture Architecture/Landscape Architecture Arts Commerce			Conservation Education Entertainment/Recreation Ethnic Heritage (specify)				Politics/Government/Law Religion Science & Engineering Social Movements/Organizations	
Community Planning/Development			Health/Medicine Manufacturing/Industry Military			Х	Transportation Other (specify) Study Unit Sub-Ther Cold War/Nuclear Fue	.,
Statement of Significance							Waste Management (
	1983 eyor, this property appears to reyor, this property is located in	neet the criteria of th	•	United Nuclear Places.				

The 1325-N Crib and Trench is a major inactive waste management unit located approximately 300 m (1,000 ft) east of the 1301-N Trench and Crib. The 1325-N Crib and Trench was used from 1983 until 1986. 1325-N Crib was constructed as a replacement liquid radioactive waste disposal facility for the 1301-N Crib and Trench, which had reached its capacity. The unit received radioactive effluents from the reactor coolant system, spent fuel storage basin, periphery coolant systems, and various radioactive drain systems located throughout the 100-N Reactor facility.

When operating, discharges to this facility approximated 1,700 L/min (450 gal/min). The disposal facility made use of the natural filtration and ion-exchange properties of soil to remove radioactive material from the water. Because of low percolation rates in the soil column, the 1325-N Crib was not able to reach designed flow capacity, resulting in overflows. To compensate, the 1301-N facility was kept in operation through 1985 to share liquid wastes, until the 1325-N Trench was added. Major discharges ended in January 1987 and all discharges ended in August 1991. Today, the facility is radioactive, containing large quantities of cobalt-60, strontium-90, and cesium-137.

This property is not associated with an important person (Criterion B), does not possess any distinctive architectural features or methods of construction (Criterion C), and does not qualify under Criterion D as the principal source of important information. However, the 1325-N Crib and Trench qualifies under Criterion A due to its association with the Cold War production of plutonium at N Reactor, and it contribution to Reactor Operations, specifically the Liquid Waste Management System. Therefore, it is the conclusion of the U.S. Department of Energy that the 1325-N Crib and Trench is eligible under Criterion A for inclusion on the National Register of Historic Places as a contributing property within the Hanford Site Manhattan and Cold War Era Historic District.

Description of Physical Appearance

The 1325-N facility is composed of three distinct parts: the crib, the zig-zag trench, and the pipelines. The 1325-N Crib measures 76 m (250 ft) in length and 73 m (240 ft) in width. A 914-m (3,000-ft) extension trench, 17 m (55 ft) wide and 2 m (7 ft) deep, was added to augment operation of the crib. Both the crib and trench are covered with precast, prestressed concrete cover panels, completely sealed with grout, to minimize wildlife access and windborne contamination. The trench is divided into four equal sections by three dams. The crib cover is approximately 3 m (10 ft) lower than the surrounding ground and less than 1.5 m (5 ft) above the percolation surface. Rock stabilization materials were used on the slopes around the crib to minimize wind erosion. Today the facility is surrounded by gravel and a chain link fenced-off area and posted with signs warning of the radiation hazards.

The N Reactor UTM coordinates are as follows: Northeast corner - 303974E, 5172485N; southeast corner - 303974E, 5171639N; southwest corner - 303069E, 5171639N; northwest corner - 303069E, 5172485N.

Major Bibliographic References

DOE-RL. RCRA Facility Investigation/Corrective Measures Study Work Plan for the 100-NR-1 Operable Unit, Hanford Site, Richland, Washington. DOE/RL-90-22 Draft F, 1994. DOE-RL. 100-NR-1 Treatment, Storage, and Disposal Units Corrective Measures Study/Closure Plan. DOE/RL-96-39. Draft A.